

ABSTRACT

[00480] A method of providing a glass sheet of substantially uniform thickness across a width includes vertically drawing a glass. The method also includes controlling a mass, or a viscosity of glass from an isopipe, or both, to substantially eliminate horizontal movement of the glass sheet. An apparatus for carrying out the methods is also described. The apparatus includes a heating element and cooling jets to control the viscosity, and a mechanism to tilt the isopipe to control the mass.